

| # | Document ID | Source | Issue Date | Title | Current | Inventor | 2 | 3 | 4 |
|----|---------------|--------|------------|---|---------|---------------------------------|---|---|---|
| 1 | US 6671585 B2 | USPAT | 20031230 | System, method and computer program product for enhancing commercial value of electrical power produced from a renewable energy power production facility | 700/281 | Lof, Per-Anders Kristian et al. | | | |
| 2 | US 6320272 B1 | USPAT | 20011120 | Wind turbine with a wind velocity measurement system | 290/44 | Lading, Lars et al. | | | |
| 3 | US 4556801 A | USPAT | 19851203 | Method for utilizing wind energy for autonomous electricity production | 290/44 | Gervasio; Vincenzo et al. | | | |
| 4 | US 8724097 B1 | USPAT | 20040420 | Method for operating a wind farm | 290/44 | Wobben; Aloys | | | |
| 5 | US 6512966 B2 | USPAT | 20030128 | System, method and computer program product for enhancing commercial value of electrical power produced from a renewable energy power production facility | 700/281 | Lof, Per-Anders Kristian et al. | | | |
| 6 | US 4400659 A | USPAT | 19830823 | Methods and apparatus for maximizing and stabilizing electric power derived from wind driven source | 322/32 | Barron; Benjamin et al. | | | |
| 7 | US 6856039 B2 | USPAT | 20050215 | Variable speed wind turbine generator | 290/44 | Mikhail; Amir S. et al. | | | |
| 8 | US 4703189 A | USPAT | 19871027 | Torque control for a variable speed wind turbine | 290/44 | DValentin; Eugene D. et al. | | | |
| 9 | US 6856041 B2 | USPAT | 20050215 | Variable speed wind turbine having a passive grid side rectifier with scalar power control and dependent pitch | 290/44 | Siebenhäler; Eckardt et al. | | | |
| 10 | US 6420795 B1 | USPAT | 20020716 | Variable speed wind turbine generator | 290/44 | Mikhail; Amir S. et al. | | | |
| 11 | US 6320273 B1 | USPAT | 20011120 | Large vertical-axis variable-pitch wind turbine | 290/55 | Nemec; Otlio | | | |
| 12 | US 6285090 B1 | USPAT | 20010904 | Low-speed directly driven wind turbine | 290/55 | Brutsaert; Patrick et al. | | | |
| 13 | US 6856040 B2 | USPAT | 20050215 | Variable speed wind turbine having a passive grid side rectifier with scalar power control and dependent pitch control | 290/44 | Feddersen; Lorenz et al. | | | |
| 14 | US 6137187 A | USPAT | 20001024 | Variable speed wind turbine generator | 290/44 | Mikhail; Amir S. et al. | | | |
| 15 | US 5949672 A | USPAT | 19990907 | Three-phase matrix converter and method for operation thereof | 363/159 | Bernet; Steffen | | | |
| 16 | US 5909367 A | USPAT | 19990601 | Modular AC-AC variable voltage and variable frequency power conveter system and control | 363/163 | Change; Jie | | | |
| 17 | US 5798632 A | USPAT | 19880825 | Variable speed wind turbine generator with zero-sequence filter | 322/28 | Muljadi; Eduard | | | |
| 18 | US 5422826 A | USPAT | 19950606 | Microcontroller based control system for use in a wind turbine | 700/287 | Cousineau; Kevin L. | | | |
| 19 | US 5369353 A | USPAT | 19941129 | Controlled electrical energy storage apparatus for utility grids | 323/207 | Erdman; William L. | | | |
| 20 | US 6810339 B2 | USPAT | 20041026 | Anti-islanding method and apparatus for distributed power generation | 702/65 | Wills; Robert H. | | | |
| 21 | US 6492801 B1 | USPAT | 20021210 | Method, apparatus, and system for real time reactive power output monitoring and predicting | 324/142 | Sims; Thomas R. et al. | | | |
| 22 | US 5225712 A | USPAT | 19930706 | Variable speed wind turbine with reduced power fluctuation and a static VAR mode of operation | 290/44 | Erdman; William L. | | | |
| 23 | US 5187427 A | USPAT | 19930216 | Static reactive power compensator | 323/207 | Erdman; William L. | | | |
| 24 | US 4994684 A | USPAT | 19910219 | Doubly fed generator variable speed generation control system | 290/52 | Lauw; Hian K. et al. | | | |
| 25 | US 6479807 B1 | USPAT | 20021112 | Plant for generating electric power and a method for operation of such a plant | 290/44 | Eriksson; Kjell et al. | | | |
| 26 | US 6605880 B1 | USPAT | 20030812 | Energy system providing continual electric power using wind generated electricity coupled with fuel driven electrical generators | 307/80 | Jaunich; Greg J. | | | |
| 27 | US 5892664 A | USPAT | 19990406 | Inverter for connecting a variable voltage power source to a utility grid | 363/17 | Vedder; Dietrich | | | |
| 28 | US 5592028 A | USPAT | 19970107 | Wind farm generation scheme utilizing electrolysis to create gaseous fuel for a constant output generator | 290/55 | Pritchard; Declan N. | | | |
| 29 | US 5206537 A | USPAT | 19930427 | Epcon energy field system an energy producing conglomerate (EPCAN) system using wind energy, solar panels, and steam turbines | 290/1R | Alejandro; Jose L. A. et al. | | | |
| 30 | US 4445049 A | USPAT | 19840424 | Inverter for interfacing advanced energy sources to a utility grid | 307/45 | Steigerwald; Robert L. | | | |
| 31 | US 4035659 A | USPAT | 19770712 | Electrical power-generation apparatus with rotary voltage transformer and integrated inertial energy storage | 307/84 | Jeppson; Morris R. | | | |
| 32 | US 6858953 B2 | USPAT | 20050222 | Power control interface between a wind farm and a power transmission system | 290/44 | Stahlkopf; Karl E. | | | |
| 33 | US 6420786 B1 | USPAT | 20020716 | DC local grid for wind farm | 290/44 | Lagerwey; Hendrik | | | |
| 34 | US 5384489 A | USPAT | 19950124 | Wind-powered electricity generating system including wind energy storage | 290/44 | Bellac; Alphonse H. | | | |

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| | Document ID | Source | Issue Date | Title | Current | Inventor | | | |
| 1 | WO 200197359 A1 | DERW ENT | 20011220 | Prime mover operating method for wind turbines, involves temporarily offsetting singularity phase angles between prime movers, by controlling speed of prime mover by frequency converter | | KRABBE, U | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | WO 200197359 A | DERW ENT | 20011220 | Prime mover operating method for wind turbines, involves temporarily offsetting singularity phase angles between prime movers, by controlling speed of prime mover by frequency converter | | KRABBE, U | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | US 6671585 B2 | USPAT | 20031230 | System, method and computer program product for enhancing commercial value of electrical power produced from a renewable energy power production facility | 700/291 | Lof, Per-Anders Kristian et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | US 6670721 B2 | USPAT | 20031230 | System, method, rotating machine and computer program product for enhancing electric power produced by renewable facilities | 290/44 | Lof, Per-Anders Kristian et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | US 6512866 B2 | USPAT | 20030128 | System, method and computer program product for enhancing commercial value of electrical power produced from a renewable energy power production facility | 700/281 | Lof, Per-Anders Kristian et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 | US 6333622 B1 | USPAT | 20011225 | Synchronous generator having auxiliary power windings and variable frequency power source | 322/90 | Fogarty, James Michael et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 | US 6327894 B1 | USPAT | 20011211 | Scavenger energy converter system its new applications and its control systems | 114/382 | Labrador, Gaudencio A. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8 | US 6021402 A | USPAT | 20000201 | Risk management system for electric utilities | 705/412 | Takriti, Samer | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9 | US 5974403 A | USPAT | 19991026 | Power trading and forecasting tool | 705/412 | Takriti, Samer et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10 | US 5028804 A | USPAT | 19910702 | Brushless doubly-fed generator control system | 290/40C | Lauw, Hian K. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11 | US 20050040655 A1 | US-PG PUB | 20050224 | Continuous reactive power support for wind turbine generators | 290/44 | Wilkins, Thomas A. et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12 | US 20050012487 A1 | US-PG PUB | 20050120 | Doubly fed induction machine | 318/727 | Skeist, S. Merrill et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13 | US 20040257832 A1 | US-PG PUB | 20041223 | Permanent magnet induction machine | 363/1 | Skeist, S. Merrill et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | US 20040164618 A1 | US-PG PUB | 20040828 | Fuel control system and method for distributed power generation, conversion, and storage system | 307/64 | Bryde, Jan Henrik | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 15 | US 20040155527 A1 | US-PG PUB | 20040812 | Distributed power generation, conversion, and storage system | 307/64 | Bryde, Jan Henrik | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 16 | US 20040145932 A1 | US-PG PUB | 20040729 | Energy transfer multiplexer | 363/152 | Skeist, S. Merrill et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 17 | US 20030126060 A1 | US-PG PUB | 20030703 | System, method and computer program product for enhancing commercial value of electrical power produced from a renewable energy power production facility | 705/36 | Lof, Per-Anders Kristian et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 18 | US 20030011348 A1 | US-PG PUB | 20030116 | System, method, rotating machine and computer program product for enhancing electric power produced by renewable facilities | 322/37 | Lof, Per-anders Kristian et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 19 | US 20030006613 A1 | US-PG PUB | 20030109 | System, method and computer program product for enhancing commercial value of electrical power produced from a renewable energy power production facility | 290/44 | Lof, Per-Anders Kristian et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 20 | US 20020194113 A1 | US-PG PUB | 20021219 | System, method and computer program product for risk-minimization and mutual insurance relations in meteorology dependent activities | 705/37 | Lof, Per-Anders K. et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 21 | US 20020103745 A1 | US-PG PUB | 20020801 | System, method and computer program product for enhancing commercial value of electrical power produced from a renewable energy power production facility | 705/37 | Lof, Per-Anders Kristian et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 22 | US 20020087234 A1 | US-PG PUB | 20020704 | System, method and computer program product for enhancing commercial value of electrical power produced from a renewable energy power production facility | 700/286 | Lof, Per-Anders Kristian et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 23 | US 20020084655 A1 | US-PG PUB | 20020704 | System, method and computer program product for enhancing commercial value of electrical power produced from a renewable energy power production facility | 290/44 | Lof, Per-Anders Kristian et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 24 | DK 200000912 A | DERW ENT | 20011215 | Prime mover operating method for wind turbines, involves temporarily offsetting singularity phase angles between prime movers, by controlling speed of prime mover by frequency converter | | KRABBE, U | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 25 | AU 200173886 A | DERW ENT | 20011224 | Prime mover operating method for wind turbines, involves temporarily offsetting singularity phase angles between prime movers, by controlling speed of prime mover by frequency converter | | KRABBE, U | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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Active

- L1 (14580) (power OR utility) WITH grid
- L7 (1572) L1 SAME (wind OR solar OR wave OR ocean OR tidal OR tide)
- L2 (10) L2 SAME converter WITH ("prime mover" OR starter)
- L4 (16) L2 AND converter WITH ("prime mover" OR starter)
- L5 (8) L4 NOT L3
- FAMILY (1) 2002 DBB163 NFRAN
- L7 (361) tap WITH changer WITH transformer WITH (power OR utility OR electric\$3)
- LB (7) L2 AND L7
- LB (1) L7 WITH wind
- L10 (1) L7 SAME wind
- L11 (24) L7 AND wind
- L12 (17) L11 NOT LB**

DBs: US-PGPH USPAT-EPG-JPO P-Bonds

Default operator: OR Highlight all full terms initially

L11 NOT LB

BRG form ISIR form

| | 1-Document# | Source | Issue Date | Title | Current | Inventor | | | | |
|----|------------------|----------|------------|--|---------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | US 6828701 B1 | USPAT | 20041207 | Synchronous machine with power and voltage control | 310/68C | Berggren, Bertil et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | US 6384581 B | DERW ENT | 20020507 | Limited angle power flow transformer e.g. shunt compensating transformer obtains total voltage of secondary windings as compensating voltage which is added with transmission voltage to obtain compensated voltage | | SEN, K K et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | US 5804423 A | DERW ENT | 19970218 | Load tap changer for electrical inductive equipment e.g. HVDC rectifier and inverter transformers - operates group of thyristors as circuit breaker and recloser so that, after half-cycle of short-circuit current, group is in off-state | | DEGENEFF, R C et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | US 4504811 A | USPAT | 19850312 | Cable operated tap changer for a three-phase transformer | 336/10 | Stunzi, Joseph M. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | US 3621428 A | USPAT | 19711116 | ELECTRICAL WINDINGS AND METHOD OF CONSTRUCTING SAME | 336/146 | Robert L. Johnston et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 | US 20020003420 A | DERW ENT | 20020110 | Hybrid tap-changer for high power application, selects taps in secondary winding of auto-transformer, based on which output of controllable voltage source is controlled | | HAMMOND, P W et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 | SU 965037 A | DERW ENT | 19821009 | Electric furnace electrode position regulator optimal adjuster - has auto-transformer winding with two groups of tappings with same pitch and connected to regulator by tap-changer | | ASTAPENKO, E S et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8 | SU 773745 B | DERW ENT | 19801025 | Resistor for transformers on-load tap changers - has spiral winding with figured inserts between turns, held by wedges but allowing oil to circulate | | RYVKIN, A M et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9 | SU 1111225 A | DERW ENT | 19840830 | Single-phase earth fault current compensator - has transformer zero-sequence voltage winding connected to command unit signalling memory, damping circuit and operative current supply | | PETROV, O A et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10 | JP 2000021644 A | DERW ENT | 20000121 | Gas insulated transformer with tap changer used in power sub-station - has winding wire of double-sided single phase transformer connected to edge part lead wire of on-load tap changer | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11 | JP 08339926 A | DERW ENT | 19861224 | Load tap changer for transformer - includes tap switch which has several switches provided between tap winding wire and neutral point extraction circuit, which connects two winding wire taps to interruption circuit | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12 | JP 08126198 A | DERW ENT | 19950517 | Voltage regulator in electric power system - uses current element to control leakage current which will flow to primary winding of series transformer, and tap changer switch to stop supply of voltage to primary winding of series | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13 | JP 06112061 A | DERW ENT | 19940422 | Power transformer tap changing device avoiding loosening of tap changer stand nut-bolt - has handle inserted in longitudinal hole in tap changer stand to insert winding and contact tap with winding by pressure NoAbstract | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | JP 06112060 A | DERW ENT | 19940422 | Power transformer tap changing device preventing tap changer stand nut-bolt loosening - has 2 taps with contact termination for mounting onto tap changer stand and connecting electric winding by pressure NoAbstract | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 15 | DE 2949463 A | DERW ENT | 19810811 | Tap changer for power transformer - has pole changing contact and auxiliary contact for maintaining connection with outgoing tapping winding until incoming one is bridged | | STENZEL, K | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 16 | DE 2817125 A | DERW ENT | 19791031 | Variable transformer with tap changer - has windings which are divided in parallel branches with coil groups consisting of layer windings placed axially behind each other | | WIDMANN, W | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 17 | CA 1246671 A | DERW ENT | 19881213 | Power take-off from transformer tap changer winding - has movable contact making contact with selected tap contacts of winding to provide variable voltage at primary | | TAKEDA, G | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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